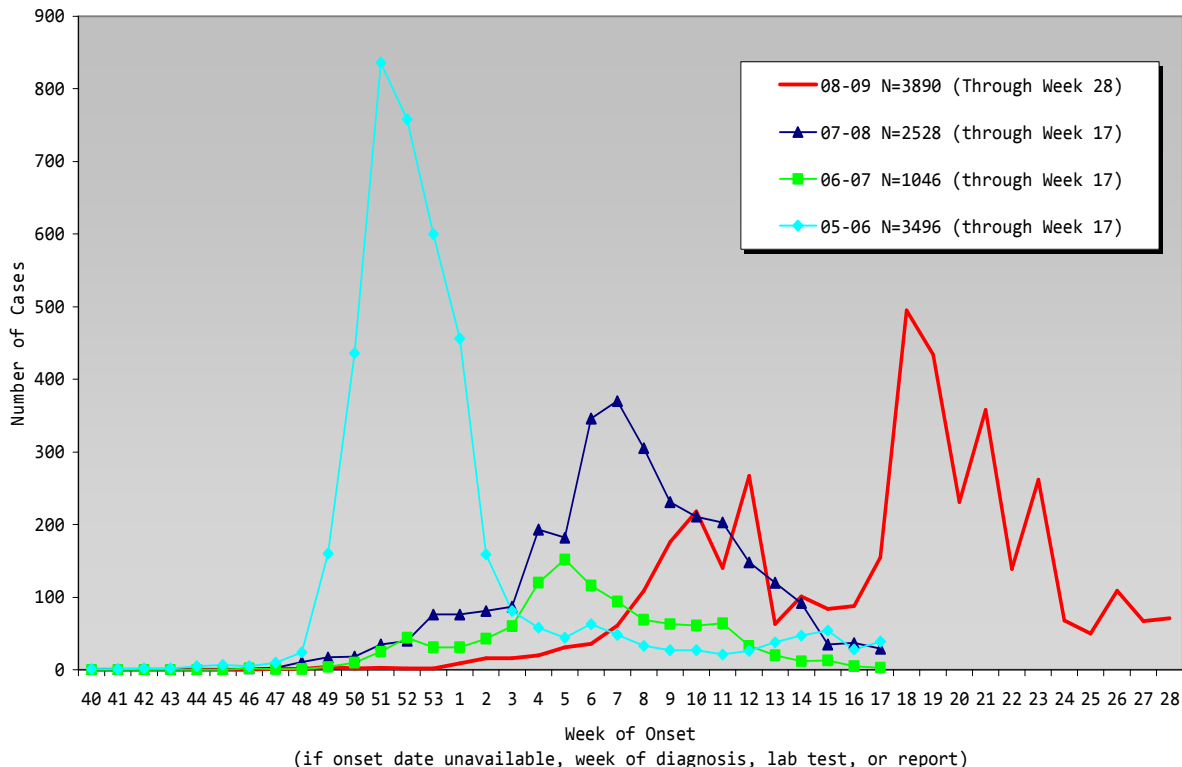
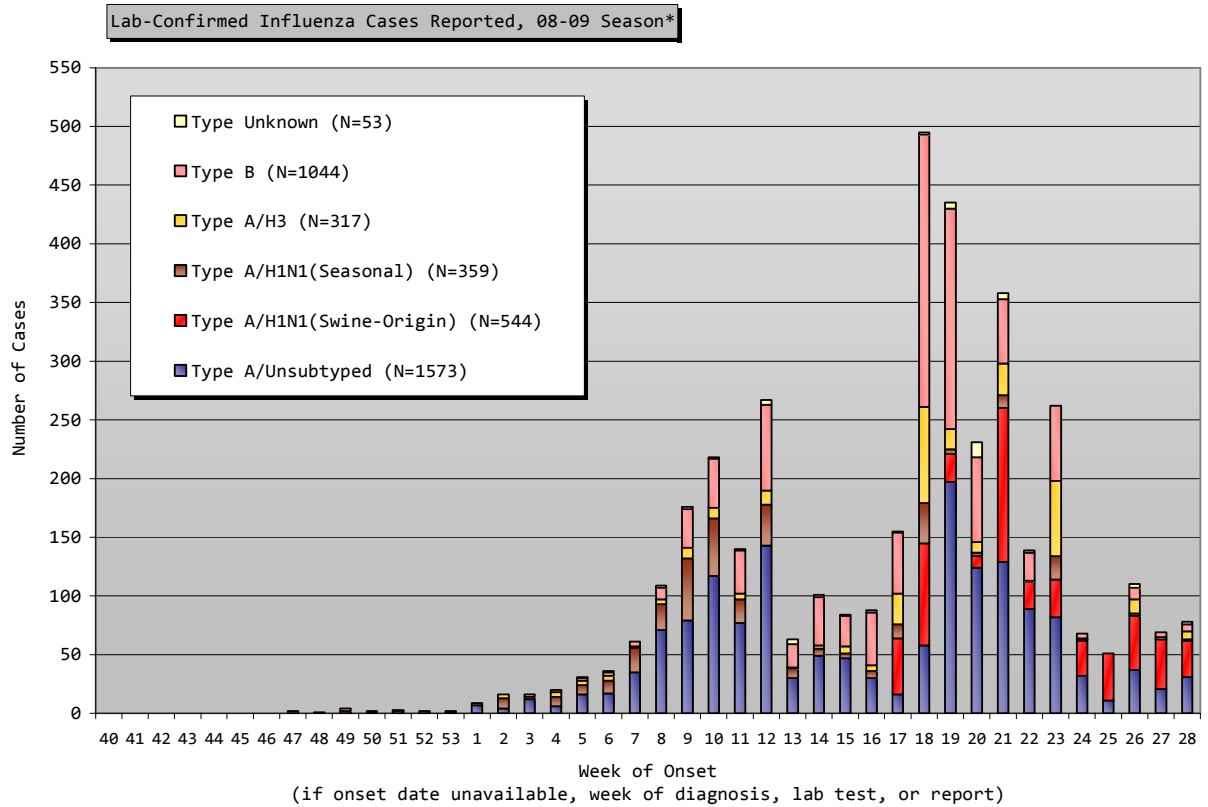
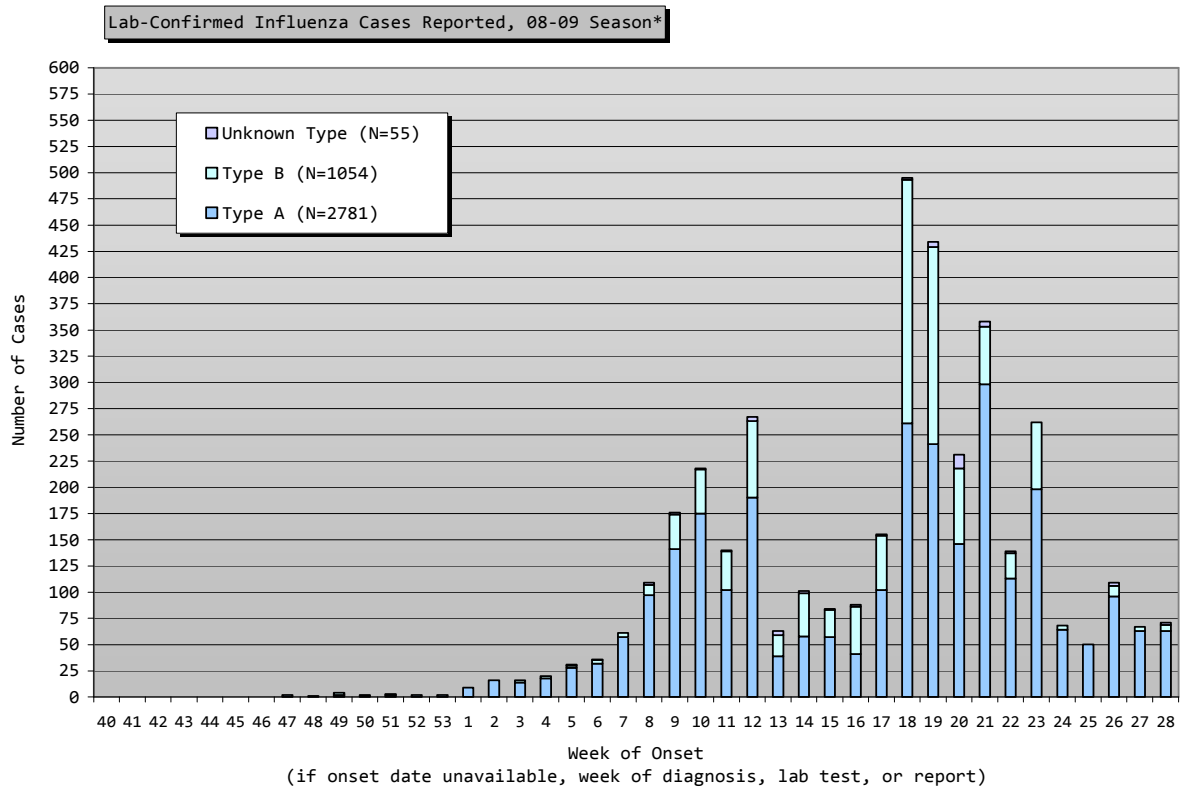


MARICOPA COUNTY INFLUENZA SUMMARY UPDATE
WEEK 28 (7/12/09-7/18/09)

- **Lab Confirmed Influenza:** 3890 cases of influenza have been confirmed at the Arizona State Laboratory (Through week 28).
- **Pneumonia & Influenza Mortality:** 3.41% of all deaths were due to pneumonia or influenza (Week 28) (MCDPH Office of Vital Statistics)
 - **Influenza Associated Deaths (IAD):** 24 influenza-related deaths have been reported through week 28. **(10 type-A, 3 type-B, 3 type-Unknown & 8 novel H1N1).**
 - **Pediatric IAD:** 4 of the 24 IAD were pediatric cases **(2 type A, 1 Type A/H1N1 & 1 type B).**
- **Influenza-Like Illness:**
 - **Cigna Health Centers (n=20):** 0.03% of visits due to ILI. (provisional data; subject to change as updated information becomes available)
 - **Hospital Emergency Departments (n=17):** 0.58% of visits due to ILI.
- **Biosense:** (n=6) 0.07 of all visits were due to ILI.
- **Severe Illness or Death (Biosense);** (n=6) Slight decrease in activity during week 28.
- **Respiratory Syndromes (Biosense):** (n=6) 12.59% of all visits were due to a respiratory syndrome.

Lab-Confirmed Influenza Cases Reported:
05-06 Season, 06-07 Season, 07-08 Season, 08-09 Season





2008-2009, Age Distribution, Various Methods of Counting Seasonal Influenza-Associated Deaths

| 2008-2009 Seasonal Influenza | A=Influenza on DC + positive testing | | | B=Influenza on DC, no testing or unknown testing | | | C=No influenza but respiratory COD on DC + positive testing | | | D=Influenza on DC + negative culture/PCR | | | E=Pending DC + positive testing | | | TOTALS | | |
|------------------------------|--------------------------------------|----------|----------|--|----------|----------|---|----------|----------|--|----------|----------|---------------------------------|----------|----------|-----------|----------|----------|
| Influenza Type | A | B | Unk | A | B | Unk | A | B | Unk | A | B | Unk | A | B | Unk | A | B | Unk |
| Under 5 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| 5-19 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 20-64 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 5 | 1 | 1 |
| 65 and older | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 3 | 1 | 2 |
| TOTAL | 2 | 2 | 0 | 1 | 0 | 1 | 5 | 1 | 0 | 1 | 0 | 2 | 1 | 0 | 0 | 10 | 3 | 3 |

2008-2009, Age Distribution, Various Methods of Counting Novel Influenza-Associated Deaths

| 2008-2009 Novel H1N1 Strain | A=Influenza on DC + positive testing | B=Influenza on DC, no testing or unknown testing | C=No influenza but respiratory COD on DC + testing | D=Influenza on DC + negative culture/PCR | E=Pending DC + positive testing | TOTALS |
|-----------------------------|---|--|--|--|---------------------------------|----------|
| Age Group | All Novel H1N1 Strains are Type A influenza. | | | | | |
| Under 5 | 1 | 0 | 0 | 0 | 0 | 1 |
| 5-19 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20-64 | 2 | 0 | 2 | 0 | 0 | 4 |
| 65 and older | 0 | 0 | 1 | 0 | 2 | 1 |
| TOTAL | 3 | 0 | 3 | 0 | 2 | 8 |

2008-2009, Confirmed Seasonal and Novel H1N1 Influenza-Associated Deaths by serotype.

| Type | Seasonal Influenza* | Novel H1N1 | Total |
|--------------|---------------------|------------|-----------|
| A | 9 | 8 | 17 |
| B | 3 | | 3 |
| Unk | 1 | | 1 |
| Total | 13 | 8 | 21 |

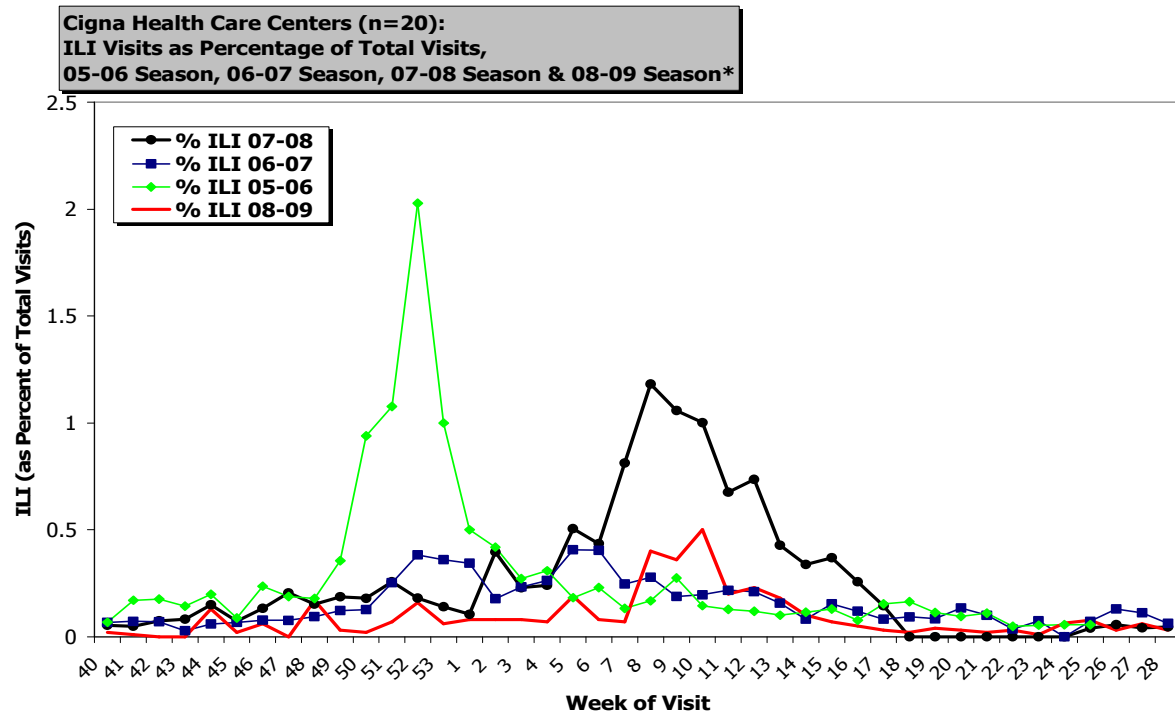
**Confirmed IAD include cases with Influenza or Respiratory causes of death + positive testing or unknown testing. Cases with positive testing and a pending death certificate are also included.*

Influenza-Like Illness (ILI)* Surveillance

*ILI case definition: fever (at least 100°F) AND cough and/or sore throat.

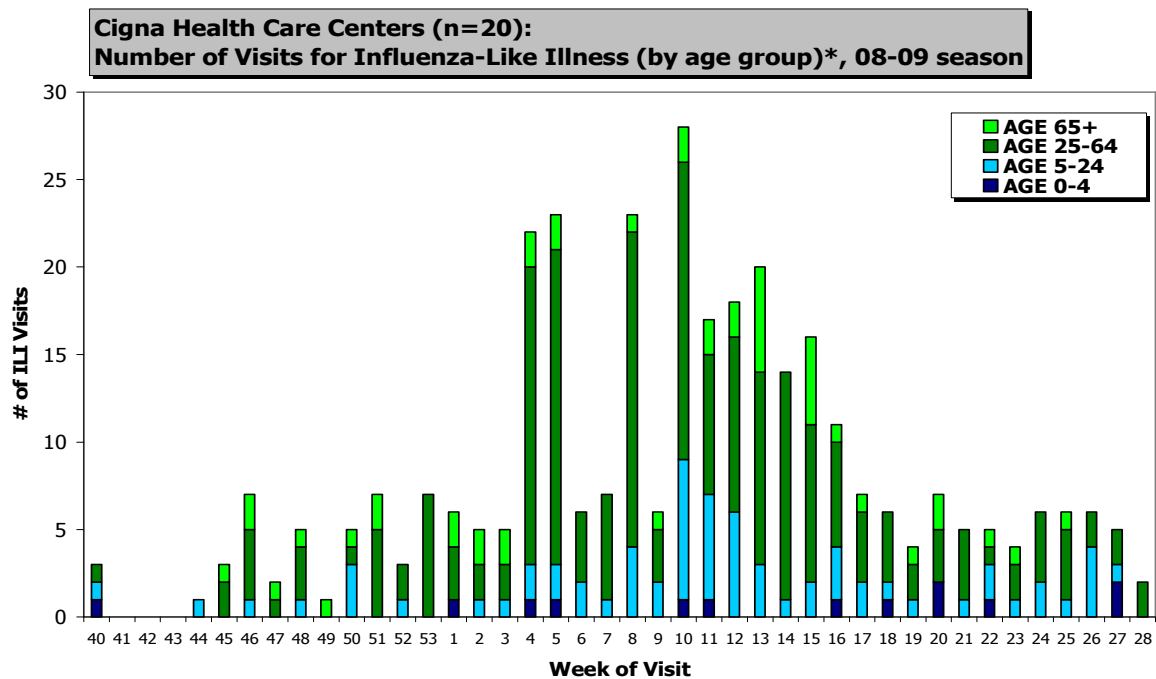
- During Week 28, 0.03% of patient visits to Cigna Health Care Centers (data from 20 centers, six departments) were due to ILI. During Week 28 of the two previous seasons, 0.04% (07-08) and 0.06% (06-07) of patient visits to Cigna Health Care Centers were due to ILI. (*Provisional data; may change in subsequent reports as updated information becomes available.)
- The percentage of ER visits for ILI (data from 17 hospitals) was 0.58% for Week 28.

Influenza-Like Illness (ILI)* Surveillance



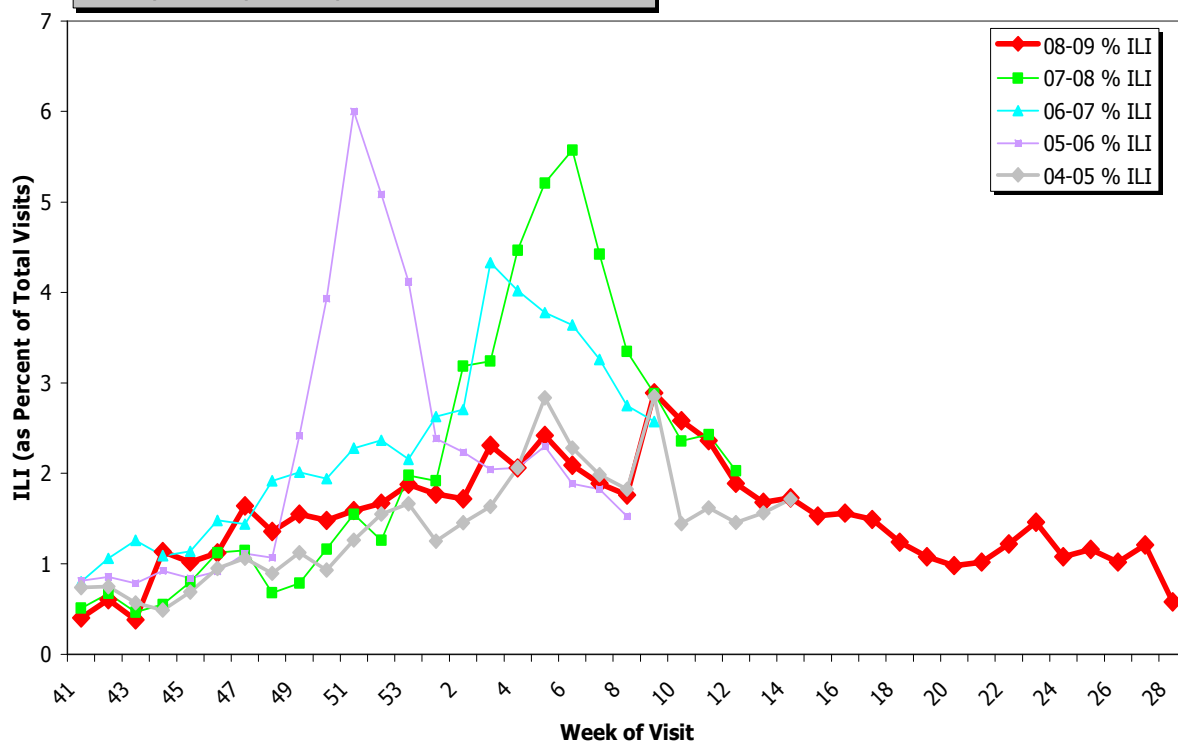
*Data for Weeks 25-28 of the 08-09 season is provisional and may change in subsequent reports as updated information becomes available.

Influenza-Like Illness (ILI)* Surveillance

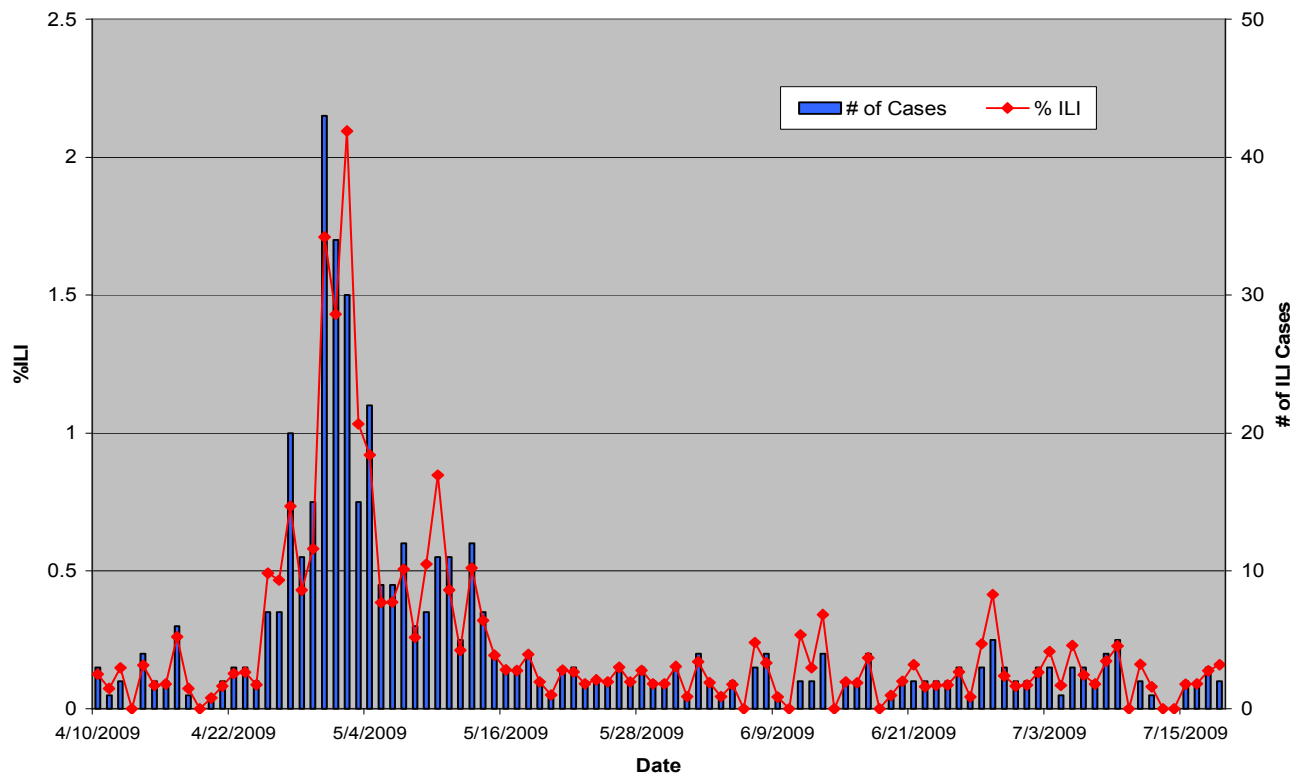


*Data for Weeks 25-28 of the 08-09 season is provisional and may change in subsequent reports as updated information becomes available.

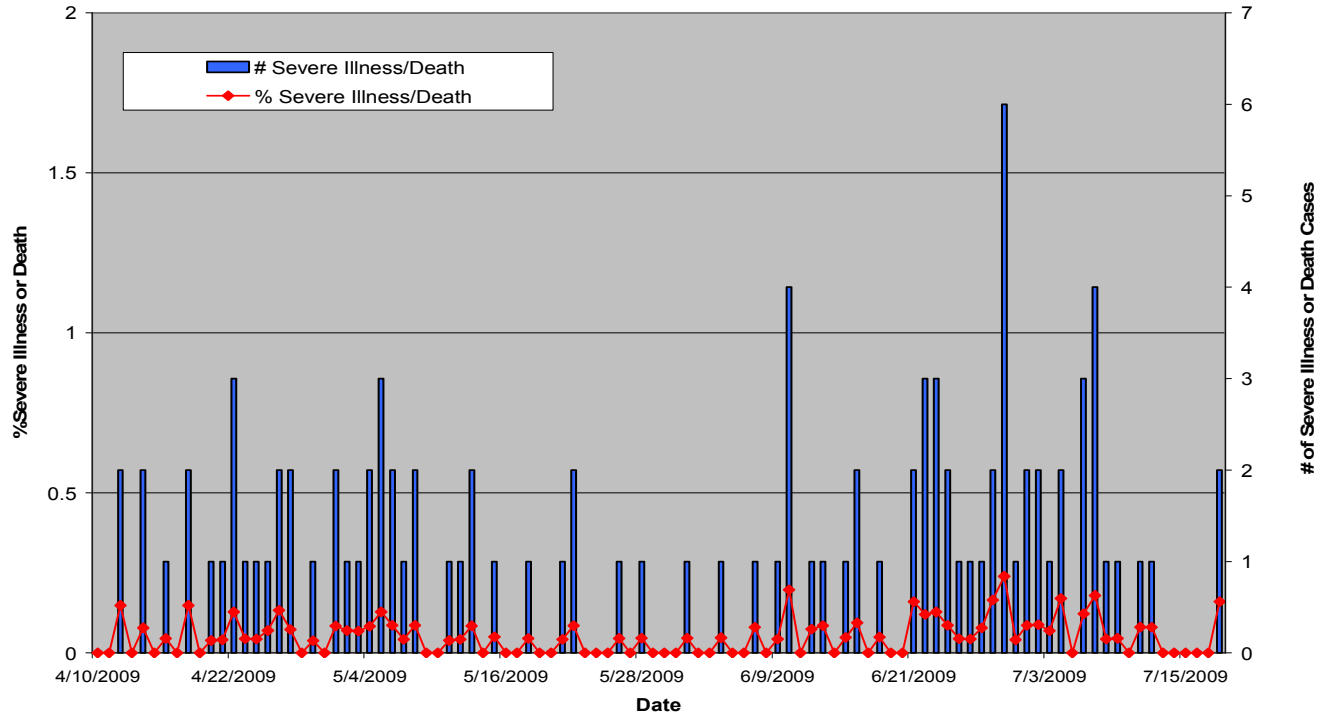
**Hospital Emergency Departments (n=17):
ILI Visits as Percentage of Total Visits
04-05, 05-06, 06-07, 07-08 & 08-09 Seasons**



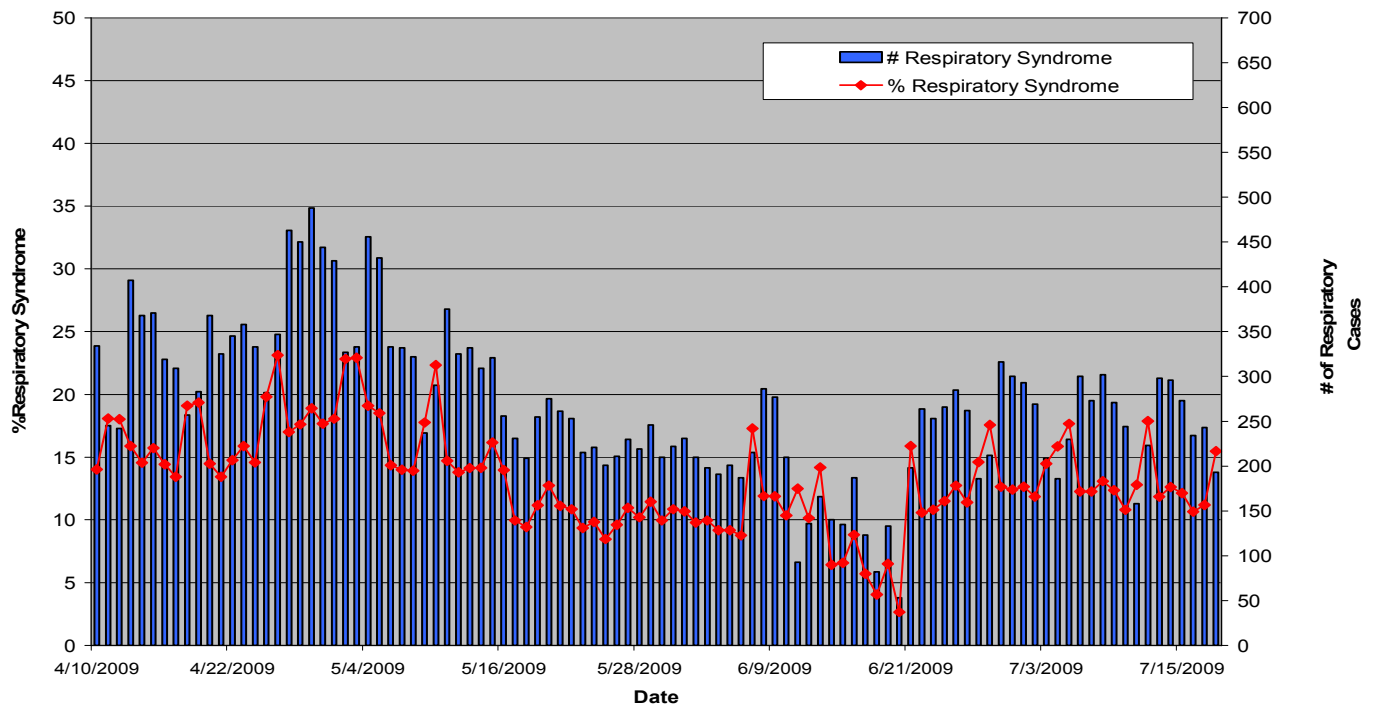
**All Biosense Facilities- Daily ILI Surveillance
(n=6 facilities)**

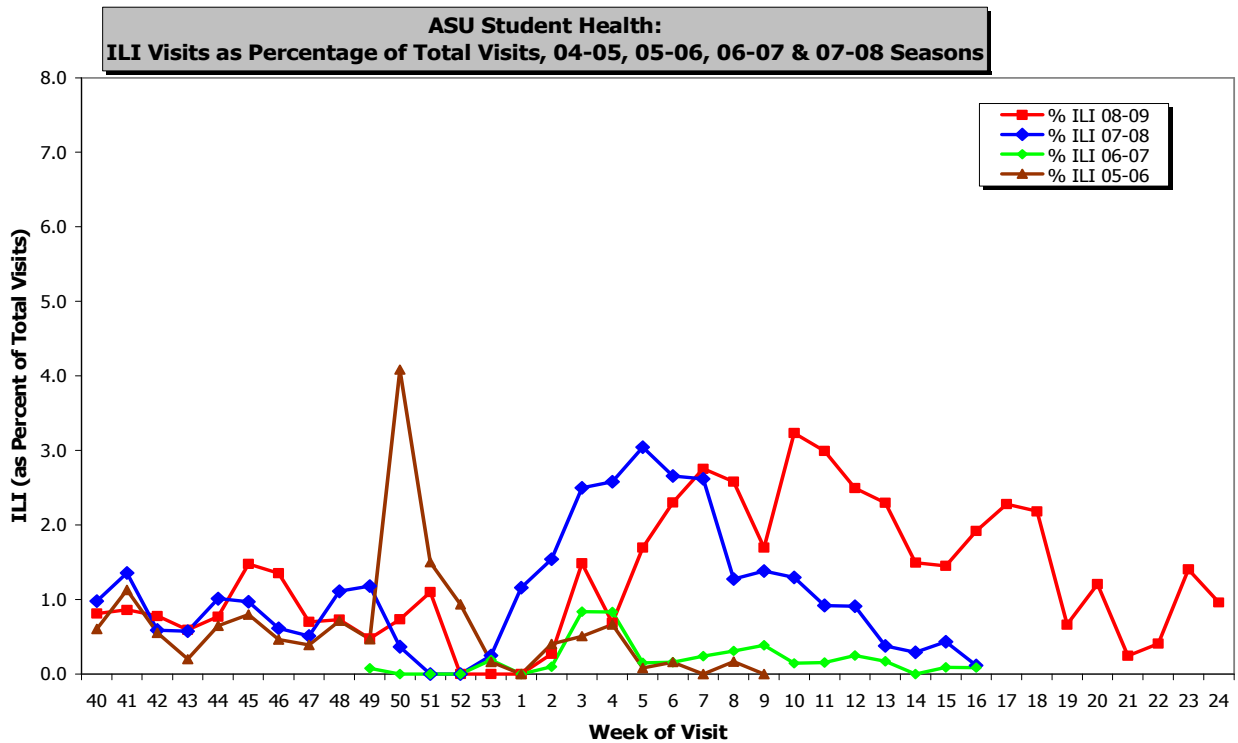


**All Biosense Facilities Daily Syndrome Surveillance: Severe Illness or Deaths
(n=6 facilities)**



**All Biosense Facilities Daily Syndrome Surveillance: Respiratory
(n=6 facilities)**





Influenza Activity outside Maricopa County

Information on influenza activity outside Maricopa County is available at these sites:

- http://azdhs.gov/phs/oids/epi/flu/az_flu_surv.htm (Arizona Department of Health Services)
- <http://www.cdc.gov/flu/weekly/fluactivity.htm> (CDC)

Due to wide variability between national- and local-level data, it is not appropriate to apply any national baselines or thresholds to the information represented in this report.

Please email any questions about this report to: dereksteinke@mail.maricopa.gov.
Report generated: 7/24/09.

Influenza Surveillance Participants include:

Arizona Department of Health Services

Cigna Health Care Centers

Arizona State University Campus Health Services

Hospital Emergency Departments & Infection Control Practitioners

- | | |
|------------------------------------|---------------------------------------|
| • Banner Baywood Hospital | • Mayo Hospital |
| • Banner Desert Hospital | • MMC |
| • Banner Estrella Hospital | • St. Josephs Hospital |
| • Banner Gateway Hospital | • St. Luke's Hospital |
| • Banner Good Samaritan | • Tempe St. Luke's |
| • Banner Del E. Webb Hospital | • Scottsdale Healthcare Shea |
| • Arrowhead Hospital | • Scottsdale Healthcare Osborne |
| • Carl T. Hayden VA Medical Center | • Scottsdale Healthcare Thompson Peak |
| • John C Lincoln North Mountain | • Wickenburg Community Hospital |

